



JC10 Rec'd PCT/PTO 26 MAY 2005

P 4

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I hereby certify that this correspondence is being sent by first class mail to: Mail Stop Amendment, Commissioner for Patents,

P.O. Box 1450, Alexandria, VA, on May 24, 2005.

Elena M. Cuthbertson
Elena M. Cuthbertson

**PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF
SATORU OBARA, ET AL.

DOCKET NO.: TOYO-1

SERIAL NO.: 10/521,689

EXAMINER: UNKNOWN

FILED: JANUARY 18, 2005

ART UNIT: UNKNOWN

TITLE: METHOD FOR PRODUCING A DENDRIMER, BUILDING BLOCK
COMPOUND, AND METHOD FOR PRODUCING A THIOPHENE COMPOUND

WILMINGTON, DE
DATE: MAY 24, 2005

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the applicants' duty of disclosure under 37 CFR 1.56, and the requirements of 37 CFR 1.97 and 1.98, and to aid in the search and examination of the above identified application, the applicants note and enclose a copy of each of the following references and the English translations of the abstracts:

Wang, et al. U.S. Patent No. 6,025,462

Susumu, T., et al, JP Patent No. 3074277
Toshihide, Y., et al., Japanese Application Laid-open No. 10-310561
Manabu, K., Japanese Application Laid-open No. 2002-20740
Hideji, D., et al. Japanese Application Laid-open No. 2001-247861

Grayson, S.M., et al, *Convergent Dendrons and Dendrimers: From Synthesis to Applications*, Chem. Rev. 101, pp. 3819-3867 (2001).

Malenfant, P., et al., *Well-Defined Triblock Hybrid Dendrimers Based on Lengthy Oligothiophene Cores and Poly(benzyl ether) Dendrons*, J. Am Chem. Soc., 120, pp. 10990-10991 (1998).

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DT/

Applicant: Satoru Obara, et al.
Serial No.: 10/521,689
Filing Date: January 18, 2005

Groenendaal, L., et al, *Surface Functionalization of Polyether Dendrimers Using Palladium-Catalyzed Cross-Coupling Reactions*, J. Org. Chem., 63, pp. 5675-5679 (1998).

Xla, C., et al, *A First Synthesis of Thiophene Dendrimers*, Organic Letters, Vol. 4, No. 12, pp. 2067-2070 (2002).

Shirota, Y, et al., *Starburst Molecules for Amorphous Molecular Materials*, Chemistry Letters, pp 1145-1148 (1989).

Miyaura, N., et al, *Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides*. Yuki Gose Kagaku Kyokai Shi (Journal of Synthetic Organic Chemistry, Japan), 46, p 848 (1988).

Miyaura, N., et al, *Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds*, Chem. Rev., 95, 2457-2483 (1995).

Suzuki, A., *Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles*. Journal of Organometallic Chemistry, 576, pp 147-168 (1999).

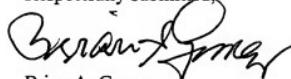
Kakimoto, M., Chemistry Vol. 50, p. 608 (1995).

Kakimoto, M., *Dendritic Macromolecules*, Kobunshi (High Polymers, Japan) Vol. 47, p. 804 (1998).

International Search Report Application No. PCT/JP03/08900

A copy of the PTO form 1449 is also enclosed.

Respectfully submitted,



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Attorney for Applicants
Registration No. 44,718
Telephone: 302-426-0610

Enclosures

L:\clients\Kurihara\Toyo-1\documents\IDS.doc

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MAY 26 2005

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Application Number 10/521,689
Filing Date January 18, 2005
First Named Inventor Satoru Obara
Art Unit _____
Examiner Name _____
Attorney Docket Number Tovo-1

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No.	Foreign Patent Document Country Code* Number * Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		JP 3074277	03-04-1997	
		JP 10-310561	11-24-1998	
		JP 2002-20740	01-23-2002	
		JP 2001-247861	09-14-2001	

Examiner
Signature

Duc Truong

Date
Considered

08/25/2008

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO

*Complete if Known***INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

2

Application Number	10/521,689
Filing Date	January 18, 2005
First Named Inventor	Satoru Obara
Art Unit	
Examiner Name	

Attorney Docket Number

Toyo-1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		GRAYSON, S.M., et al, Convergent Dendrons and Dendrimers, From Synthesis to Applications, Chem. Rev. 101, pp. 3819-3867 (2001).	
		MALENFANT, P., et al., Well-Defined Triblock Hybrid Dendrimers Based on Lengthy Oligothiophene Cores and Poly(benzyl ether) Dendrons, J. Am Chem. Soc., 120, 10990-10991 (1998)	
		GROENENDAAL, L., et al, Surface Functionalization of Polyether Dendrimers Using Palladium-Catalyzed Cross-Coupling Reactions, J. Org. Chem., 63, pp. 5675-5679 (1998).	
		XIA, C., et al, A First Synthesis of Thiophene Dendrimers, Organic Letters, Vol. 4, No. 12, pp. 2067-2070 (2002).	
		SHIROTA, Y., et al., Starburst Molecules for Amorphous Molecular Materials, Chemistry Letters, pp 1145-1148 (1989).	
		MIYURA, N., et al, Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, (J. of Synthetic Organic Chemistry, 46,p.848 (1988)	
		MIYURA, N., et al, Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Chem. Rev., 95, 2457-2483 (1995).	
		SUZUKI, A., Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles. Journal of Organometallic Chemistry, 576, pp 147-168 (1999).	
		KAKIMOTO, M., Chemistry Vol. 50, p. 608 (1995).	
		KAKIMOTO, M., Dendritic Macromolecules, Kobunshi (High Polymers, Japan) Vol. 47, p. 804 (1998).	

Examiner Signature	/Duc Truong/	Date Considered	08/22/2008
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1. Applicant's unique citation designation number (optional). 2. Applicant is to place a check mark here if English language Translation is attached.

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